

**In The Claims:**

1. (Previously presented) A seed of alfalfa plant designated J-101 and having representative seed deposited with American Type Culture Collection (ATCC) with Accession No. PTA-4814.
2. (Previously presented) An alfalfa plant J-101 or parts thereof produced by growing the seed of claim 1.
3. (Original) The alfalfa plant J-101 or parts thereof of claim 2, comprising pollen, ovule, flowers, shoots, roots, or leaves.
4. (Currently amended) A progeny plant or parts thereof of the [[The]] alfalfa plant J-101 of claim 2 ~~further comprising progeny thereof~~, wherein said progeny plant or parts thereof comprise ~~comprises SEQ ID NO:1 and SEQ ID NO:2~~ alfalfa event J-101.
5. (Currently amended) The progeny plant or parts thereof ~~alfalfa plant J-101~~ of claim 4, ~~wherein the genome of said alfalfa plant J-101 comprises SEQ ID NO:3 and SEQ ID NO:4~~ further comprising pollen, ovule, flowers, shoots, roots or leaves.
6. (Currently amended) The alfalfa plant J-101 or seed or parts thereof of claim 4, the genome of which produces a J-101 diagnostic ~~[[an]] amplicon comprising SEQ ID NO:1 or SEQ ID NO:2~~ in a DNA amplification method.
- 7-9. (Canceled)
10. (Previously presented) A method of producing a plant that tolerates application of glyphosate herbicide comprising:
  - (a) sexually crossing a first glyphosate tolerant alfalfa plant of event J-101, and a second parent plant that lacks the tolerance to glyphosate herbicide, thereby producing a plurality of first progeny plants, wherein event J-101 is an event, a representative seed of which is deposited as ATCC accession no. PTA-4814; and

- (b) selecting a first progeny plant that is tolerant to application of glyphosate; and
- (c) selfing said first progeny plant, thereby producing a plurality of second progeny plants; and
- (d) selecting from said second progeny plants a glyphosate tolerant plant.

11-12. (Canceled)

13. (Currently amended) An alfalfa plant, seed, or parts thereof comprising alfalfa event J-101 comprising a glyphosate tolerant trait that is genetically linked to a complement of a marker polynucleic acid, wherein said marker polynucleic acid molecule comprises SEQ ID NO:1 or SEQ ID NO:2.

14-26. (Canceled)

27. (Currently amended) An alfalfa plant or seed or parts thereof capable of producing, the genome of which produces a] a J-101 diagnostic amplicon comprising a DNA molecule selected from the group consisting of SEQ ID NO:1 and SEQ ID NO:2 when tested in a DNA amplification method.

28-35. (Canceled)

36. (Currently amended) A method of producing a glyphosate tolerant alfalfa plant comprising:

- (a) crossing the plant of ~~claim 34~~ claim 13 with another alfalfa plant; and
- (b) selecting glyphosate tolerant progeny by analyzing for the presence of at least one nucleotide sequence selected from the group consisting of SEQ ID NOS:1-4.

37. (New) The alfalfa plant, seed, or parts thereof of claim 27 wherein said diagnostic amplicon comprises SEQ ID NO:1 or SEQ ID NO:2.